USSN: 10/075,715

Atterney Docket No.: 1059.00073

CLAIMS:

1. (Currently amended) A method of <u>affecting promoting</u> neurogenesis comprising the step of:

administering a therapeutic amount of a therapeutic compound for increasing levels of cGMP to a patient in need of neurogenesis promotion post stroke wherein increased levels of cGMP <u>result in promoto</u> neurogenesis.

- 2. (Currently amended) A compound for <u>affecting promoting</u> neurogenesis comprising an effective amount of a therapeutic compound <u>selected from the group of phosphodiesterase inhibitors, L-arginine, sildenafil, and atorvastatin</u> that increases levels of cGMP, sufficient to <u>affect promote</u> neurogenesis, wherein increased levels of cGMP result in promote neurogenesis.
- 3. (Currently amended) A neurogenesis <u>affector</u> promoter comprising a therapeutic compound in a pharmaceutically acceptable carrier that increases levels of cGMP, said therapeutic compound capable of <u>affecting</u> promoting neurogenesis wherein increased levels of cGMP result in promote neurogenesis.
- 4. (Currently amended) The neurogenesis <u>affector</u> promoter according to claim 3, wherein said therapeutic compound augments nitric oxide in a tissue.
- 5. (Currently amended) The neurogenesis <u>affector promoter</u> according to claim 4, wherein said nitric oxide donor is selected from the group consisting essentially of phosphodiesterase inhibitors, L-arginine, sildenafil, and atorvastatin.
- 6. (Previously presented) A method of augmenting the production of neurons by administering an effective amount of a therapeutic compound that increases levels of cGMP, to a site in need of augmentation, wherein increased levels of cGMP augment the production of neurons.

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- 7. (Previously presented) A method of increasing neurological function by administering an effective amount of a therapeutic compound that increases levels of cGMP to a patient in need of increased neurological function after neurological damage has occurred, whereby the increased levels of cGMP create neurogenesis, thereby increasing neurological function.
- 8. (Previously presented) A method of increasing cognitive and neurological function by administering an effective amount of a therapeutic compound for increasing levels of cGMP to a patient in need of increased cognitive and neurological function after neurological and cognitive damage has occurred, whereby the increased levels of cGMP create neurogenesis, thereby increasing neurological function.
- 9. (Currently amended) A method of affecting promoting neurogenesis comprising the step of administering an effective amount of a compound for increasing levels of cGMP in a patient in need of neurogenesis promotion, wherein increased levels of cGMP result in premote neurogenesis.
- (Previously presented) A method of augmenting the production of neurons by administering an effective amount of a compound for increasing cGMP levels at a site in need of augmentation, wherein increased levels of cGMP augment the production of neurons.
- 11. (Previously presented) A method of increasing neurological function by administering an effective amount of a compound for increasing levels of cGMP in a patient in need of increased neurological function, wherein increased levels of cGMP increase neurological function.
- (Currently amended) 12. A method of increasing cognitive and neurological function by administering an effective amount of a compound for increasing levels of cGMP in a patient in need of increased cognitive and

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neurological function, wherein increased levels of cGMP result in promote neurogenesis, thereby increasing cognitive and neurological function.

13. (Currently amended) A compound for increasing in vivo levels cGMP for use in generating neurons, wherein increased levels of cGMP result in promoto neurogenesis.